

FIG. 1

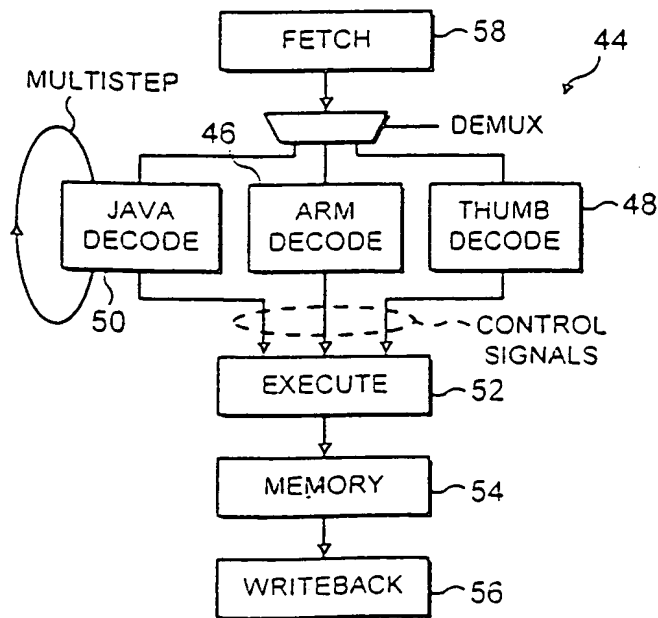


FIG. 2

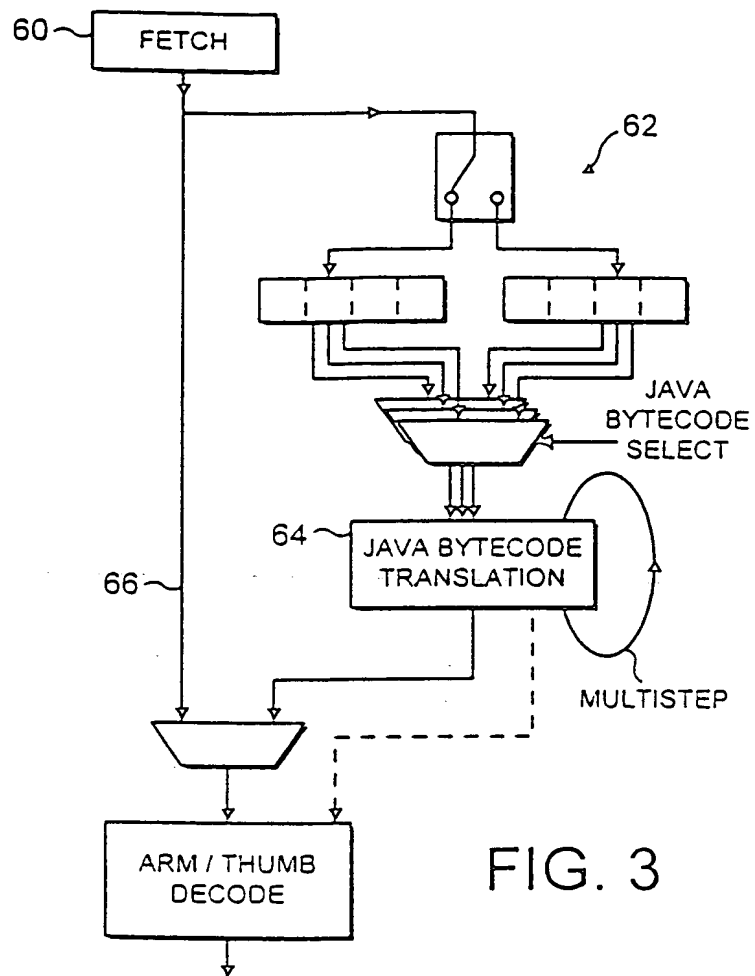


FIG. 3

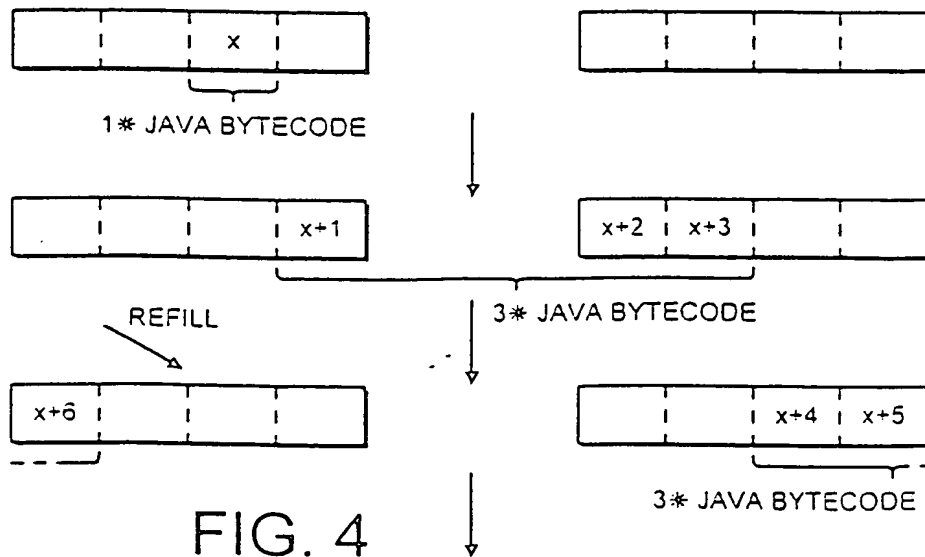


FIG. 4

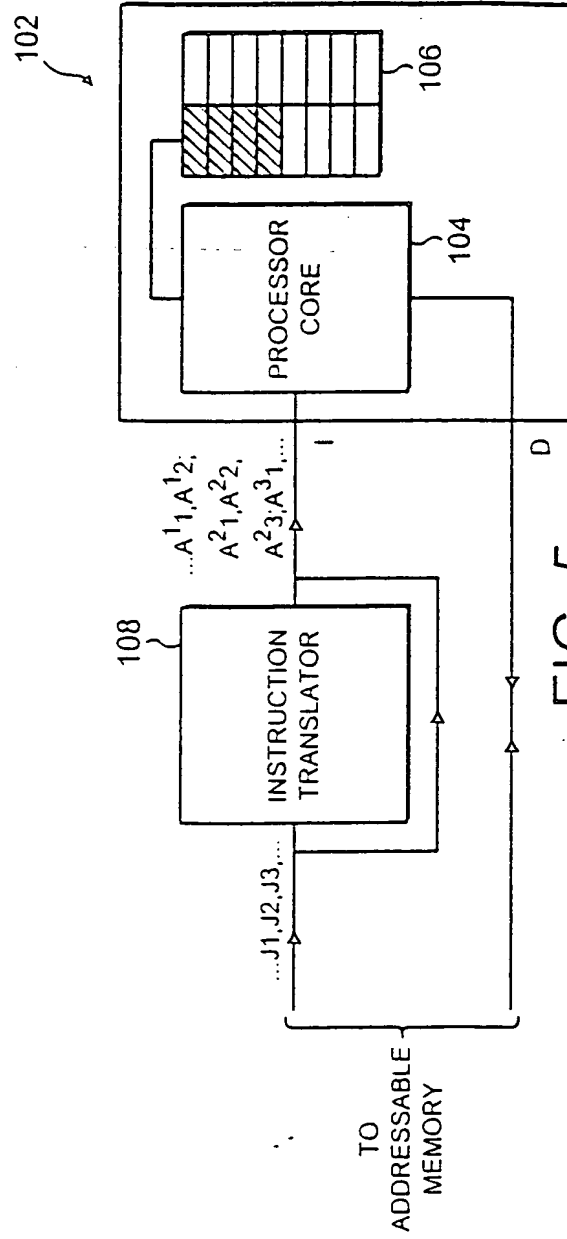


FIG. 5

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JAVA INSTRUCTION	iadd (RF=2, RF>0)	iadd (RF=2, RF>1)	iadd (SA=-1)		
ARM INSTRUCTION(S)	↑ LDR R0,[RStack, #-4]! (POP) ↓	LDR R3[RStack, #-4]! (POP) ↓	ADD R3, R3, R0 ↓		
STATE	00000	00100	01000	00111	—
R0	E	SOA TOS	SOA TOS	E	
R1	E	E	E	E	
R2	E	E	E	E	
R3	E	E	SOB TOS-1	(SOA+SOB) TOS	

JAVA INSTRUCTION	lload ¹ (RF=0, RE>2)	lload ² (RF=0, RE>2)	lload ² (RF=0, RE=2)		
ARM INSTRUCTIONS	↑ LDR R1,[Rvars, #4] ↓ LDR R0,[Rvars, #0] ↓	↑ STR R3[RStack, #-4] (PUSH) ↓	↑ LDR R3,[Rvars, #4] ↓ LDR R2,[Rvars, #0] ↓		
STATE	00000	00100	01000	10011	
R0	E	SOC TOS-1	SOC TOS-1	SOC TOS-3	
R1	E	SOD TOS	SOD TOS	SOD TOS-2	
R2	E	E	E	SOE TOS-1	
R3	(SOA+SOB) TOS	(SOA+SOB) TOS	E	SOF TOS	

FIG. 6

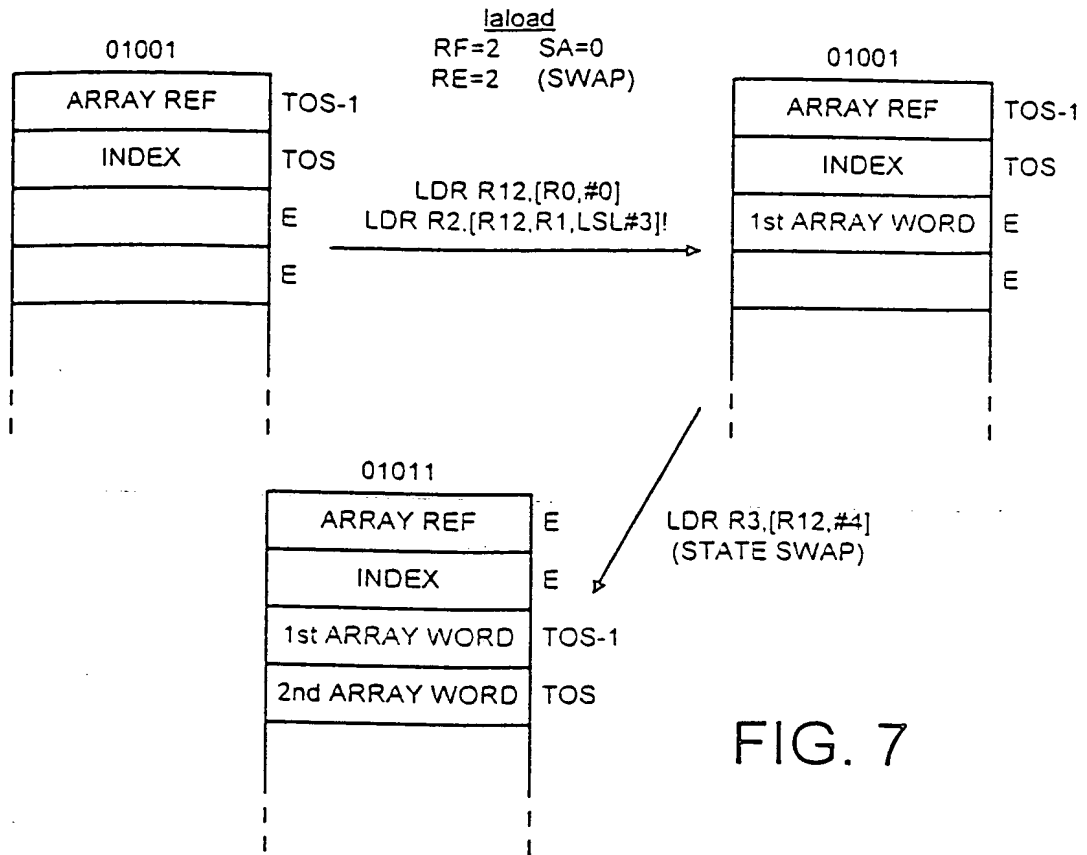


FIG. 7

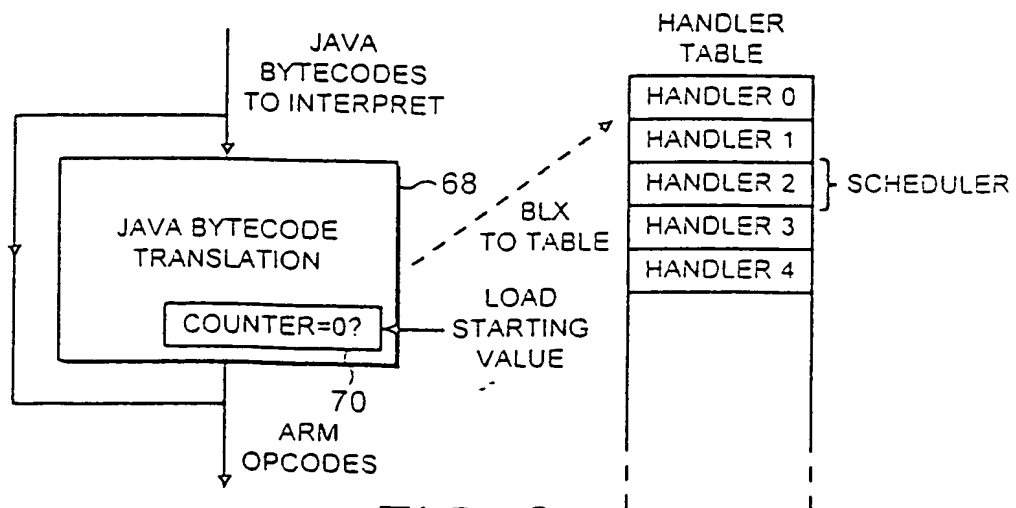


FIG. 9

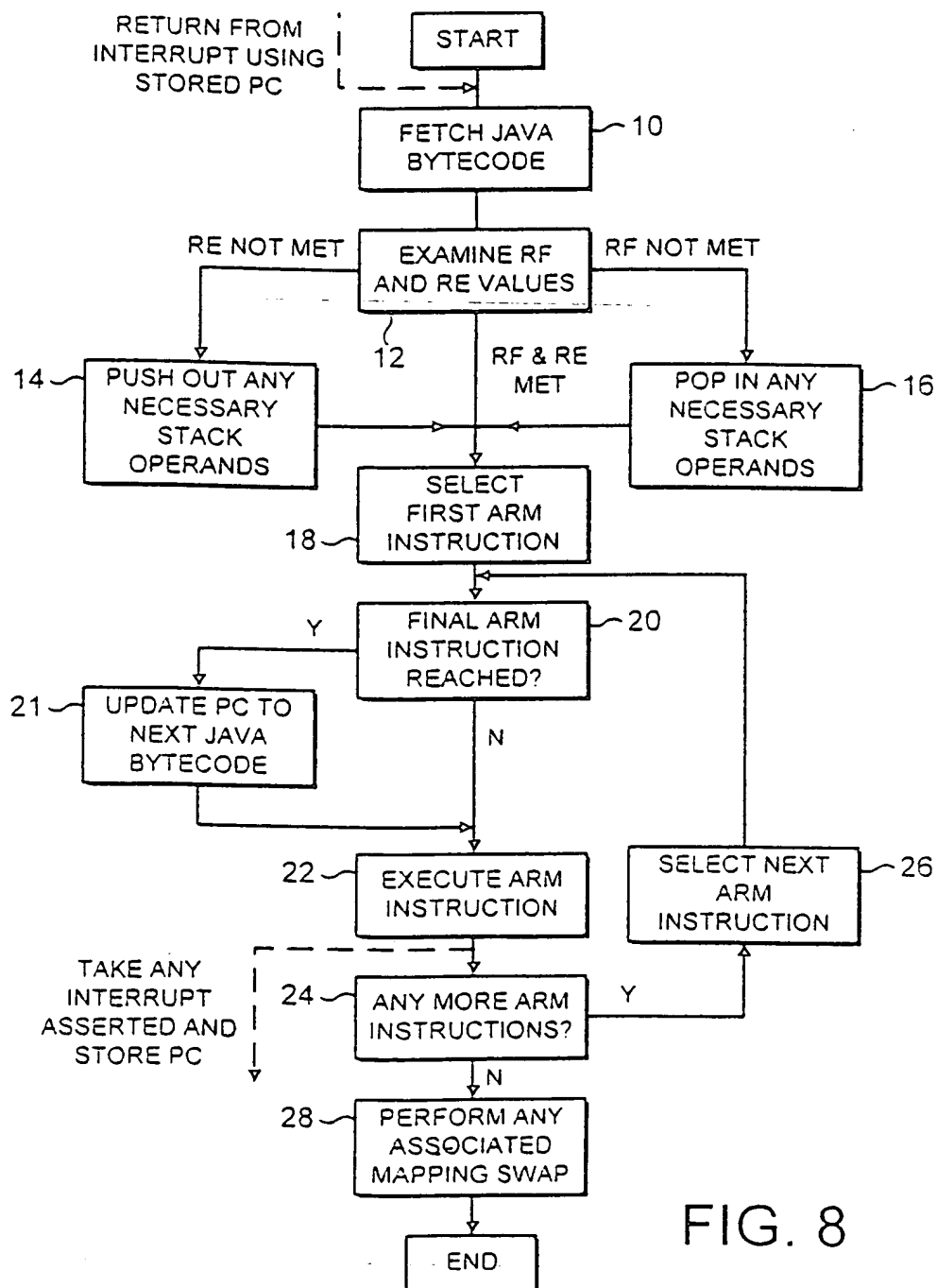
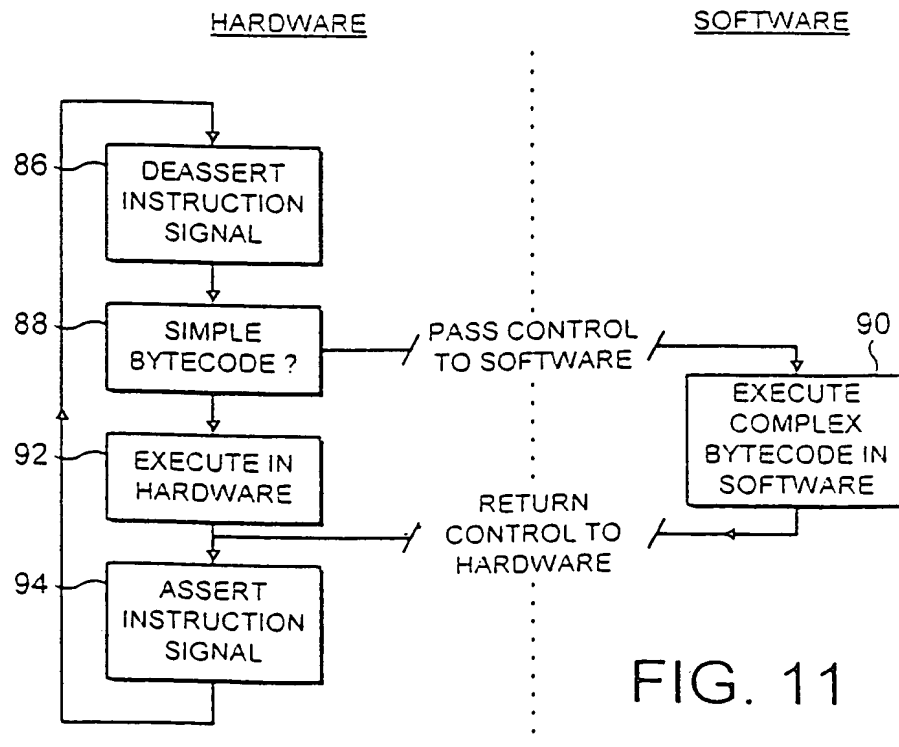
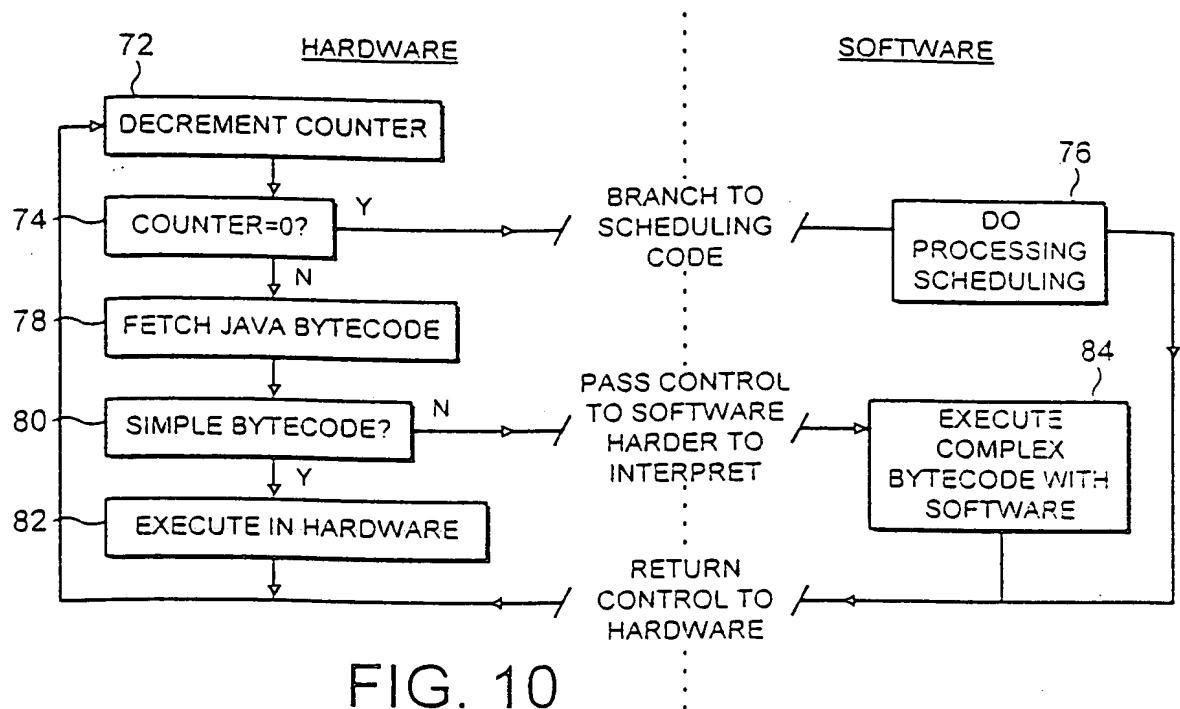


FIG. 8



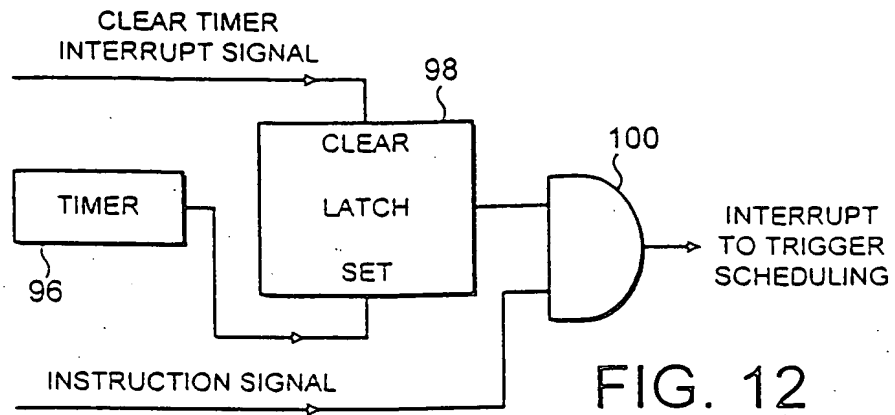


FIG. 12

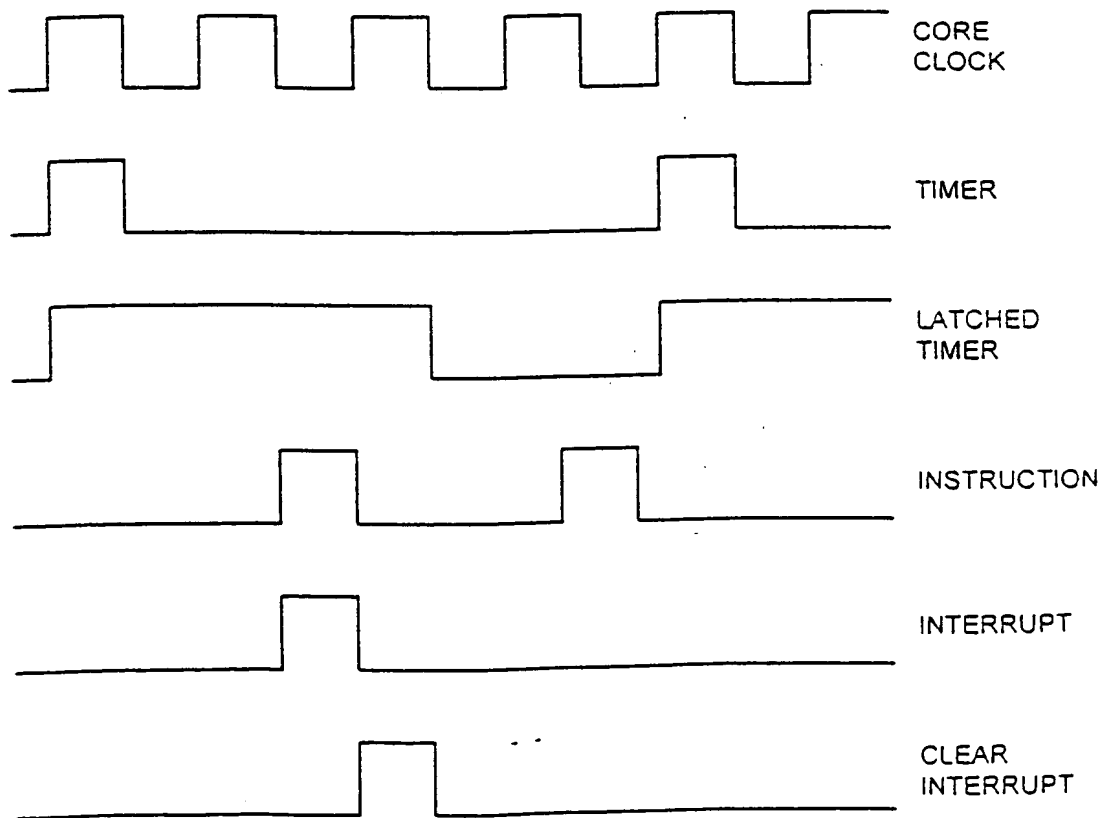


FIG. 13